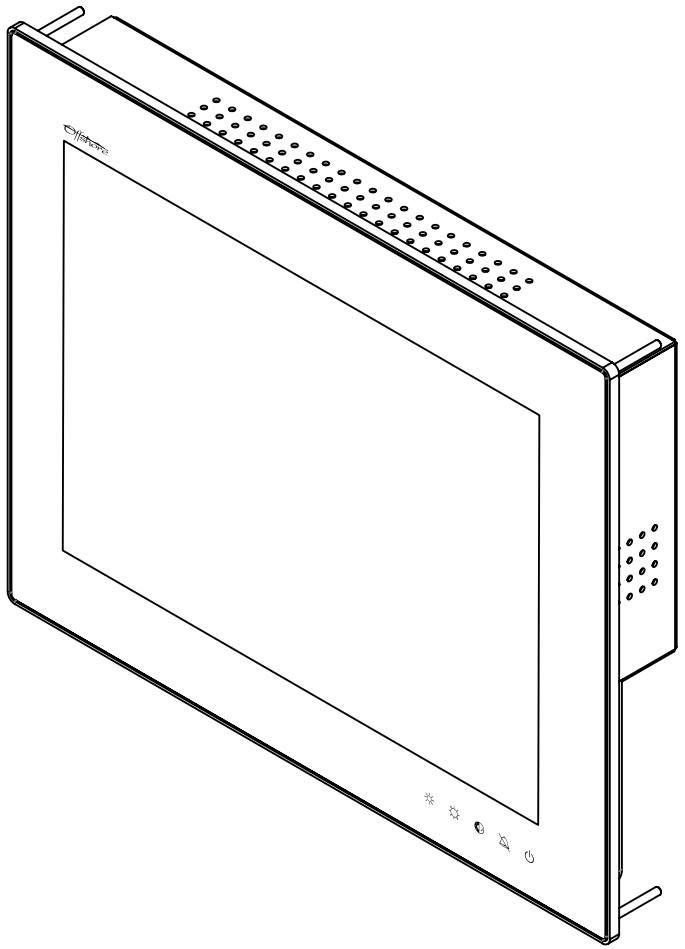
iDACS NMEA2000® INTEGRATED ALARM, DISPLAY AND CONTROL SYSTEM
Part Numbers: 4141, 4142
USER MANUAL



Revision 1.00

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1 INTRODUCTION

The Offshore System's NMEA2000® Integrated Alarm, Display and Control System is available in, 10.4"and 15" sizes each with high bright sunlight readable 1000mcd displays.

The system can control all or any of the vessels systems with graphic mimic displays to indicate the status of all the vessel's systems. These can include AC and DC electrical switching, pumps, chillers, air handling units, lighting and many others.

1.1 PRODUCT FEATURES

The Offshore System's NMEA2000® iDACS Display has the following features:

- Sunlight readable dimmable display using our BlackGlass™ technology
- Optically bonded projected capacitance touch screen for clarity and sensitivity, also allows use with a gloved finger
- Display images configurable to meet boat builders own in house style
- Control of any or all vessels systems with full graphic mimics
- Monitoring of vessels resources with user settable alarms
- Logging of all alarm conditions for later analysis
- Full unlimited Software Licence included
- Uses proven NMEA2000® network interface

2 INSTALLATION

2.1 UNPACKING THE BOX

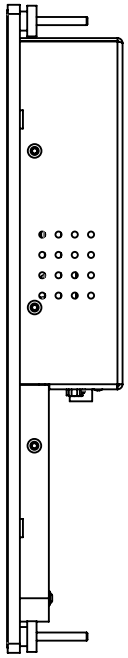
You will find the following items in the shipping box:
1 x iDACS display
1 x DC Power cable
1 x Bag containing 4 thumbwheel nuts & 4 sprung washers
1 x User Manual (This Document)
1 x Mounting cut out template

2.2 MOUNTING THE UNIT

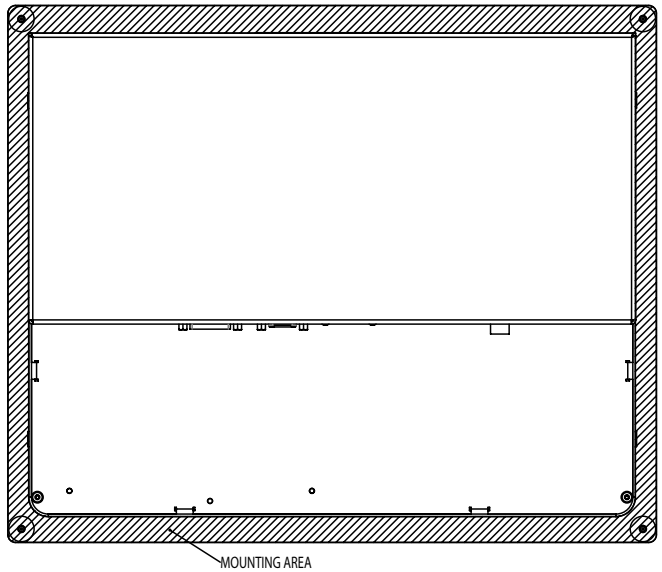
1. The unit should be mounted through a panel to a flat surface.
2. It can be mounted 45 degrees either way of vertical.
3. There should be adequate ventilation around the product to prevent heat build up.
4. Remember to allow enough clearance for access to cables and connectors.
5. Using the 4 mounting studs and thumbwheel nuts, to secure the unit.
6. The unit should be sealed to the mounting surface using silicone sealant. This silicone sealant will be part of the seal used to provide the IP rating for the product.

Once the cut-out and mounting holes have been created in the substrate, carefully slide the unit into the cut-out, then from the other side fit the sprung washer & four thumbnuts and hand tighten.

Side view showing outline.



Rear view line drawing showing outline, mounting studs and mounting area. Please see dimensional drawing in section 6.



2.3 CONNECTING THE iDACS DISPLAY

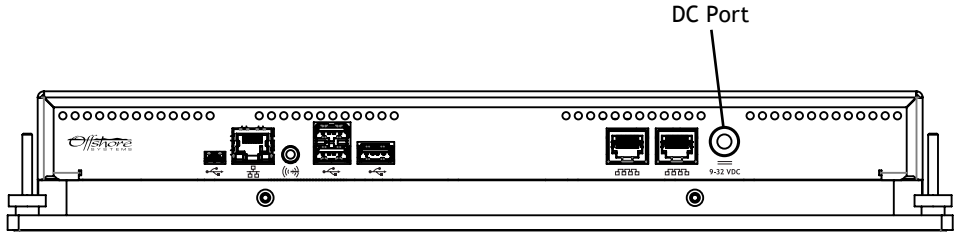
Before making any connections to the unit, ensure the NMEA2000® bus power and DC supply are turned off.

Mate NMEA2000® cable to 'Socket' on the back of the unit, observing correct orientation to ensure the keyway aligns. The cable can be extended up to 6mtrs and connect into the adapter on the network backbone. Ensure that the screw ring is securely tightened so that the connection remains waterproof and sound.

Ethernet connector is for internal Offshore programming use **ONLY**
RS232 is for internal Offshore programming use **ONLY**

The DC Power cable can be inserted into the port marked ⎓ 9-32 VDC ensuring correct orientation, when fully inserted you should hear the plug "click in".

There are three USB A and one USB OTG connectors, "C, D, E holes" these are **not for customer use** and are intended for future Offshore Systems usage.



3 USER CONTROLS

Situated in the bottom right hand corner of the display are touch capacitive touch buttons, see below:

DIM BRIGHT DAY/NIGHT ALARM MUTE STANDBY

Button	Function
DIM	Each touch will decrement the brightness level, holding the touch will continue to decrement until the minimum level is reached.
BRIGHT	Each touch will increment the brightness level, holding the touch will continue to increment until the minimum level is reached.
DAY/NIGHT MODE	This toggle between Day and Night Mode (please see operational description below)
ALARM MUTE	This will mute all current active alarm conditions
STANDBY	A touch of over half a second will turn the unit on, a long touch of over two seconds will turn the unit off and into standby.

3.1 DAY/NIGHT MODE DESCRIPTION

The “day/night button” switches between two modes. Every time the button gets pressed the backlight toggles day/night mode. When the device is turned on it always starts the backlight in MODE 1. The brightness of each mode gets saved when the device is turned off.

3.2 TO ALWAYS START THE SCREEN WITH THE BRIGHT DAY SETTING

Turn on the screen, adjust the brightness to the bright day setting (MODE 1), now press the “day/night button”, and adjust brightness to the darker night setting (MODE 2), turn device off
From now on the screen starts with the bright day setting (MODE 1) and as soon as the “day/night button” gets pressed switches into the darker night setting (MODE 2).

3.3 TO ALWAYS START THE SCREEN WITH THE DARKER NIGHT SETTING

Turn on the screen, adjust the brightness to the darker night setting (MODE 1), now press the “day/night button”, adjust brightness to the bright day setting (MODE 2), turn device off
From now on the screen starts with the darker night setting (MODE 1) and as soon as the “day/night button” gets pressed switches into the brighter day setting (MODE 2).

4 TO OPERATE THE iDACS DISPLAY

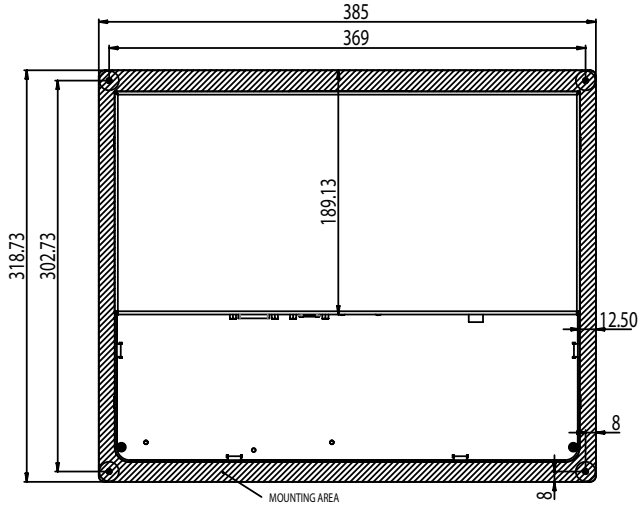
- Touch and hold the standby button for over half a second to power on the unit.
- After approx 1 minute the computer will boot up into the home screen.
- Set your desired DAY & NIGHT backlight brightness as per in section 3.
- To operate the unit, touch the screen over a button to select.
- To switch between screens/tabs either click the relevant page button, or “swipe” the page from left to right or right to left.

5 iDACS SOFTWARE

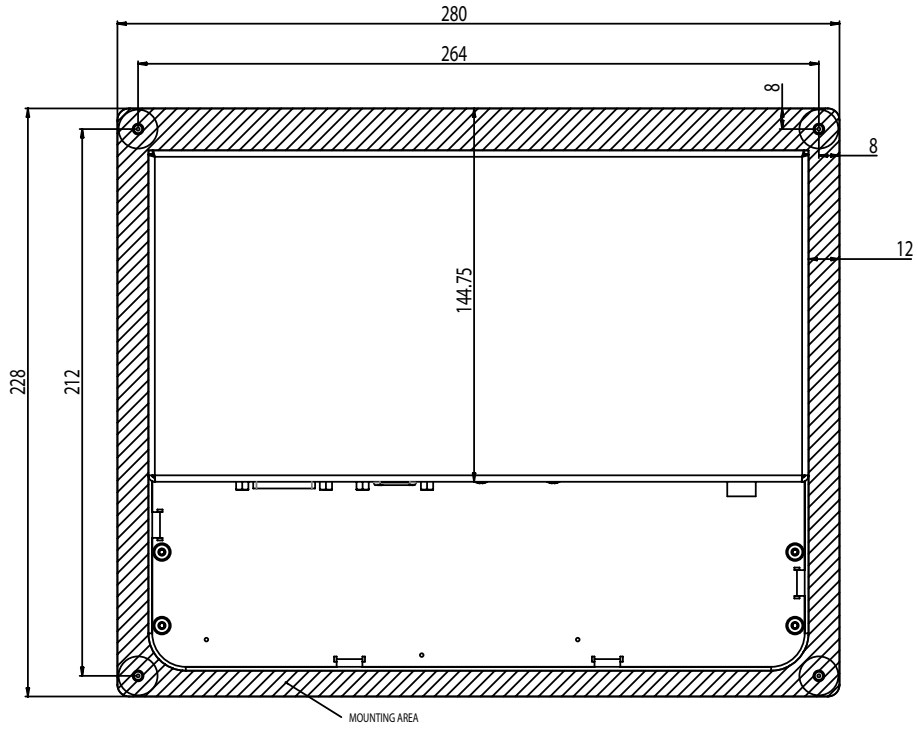
The operation of the iDACS software will be bespoke for each boatbuilder, therefore the instructions for which will be separate to this manual

6 UNIT DIMENSIONS

iDACS 10.4” monitor



iDACS 15” monitor



7 TECHNICAL SUPPORT

If you require technical support for any Offshore Systems products you can reach us using any of the following ways:

- Tel: +44(0)1425 610022
- Fax: +44(0)1425 614794
- Email: support@osukl.com
- Web: www.osukl.com
- Post: Offshore Systems UK Ltd
  Unit 10-11 Milton Business Centre
  Wick Drive, New Milton, Hampshire BH25 6RH

Offshore Systems (UK) Ltd
Unit 10 -11 Milton Business Centre, Wick Drive,
New Milton, Hampshire, BH25 6RH, United Kingdom

Tel: +44(0)1425 610022 Fax: +44(0)1425 614794
Email: mail@osukl.com Web: www.osukl.com

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8 WARRANTY

Offshore Systems warrants this product to be free from defects in materials and workmanship for one year from the date of original purchase. If within the applicable period any such products shall be proved to Offshore Systems satisfaction to fail to meet the above limited warranty, such products shall be repaired or replaced at Offshore Systems option. Purchaser's exclusive remedy and Offshore Systems sole obligation hereunder, provided product is returned pursuant to the return requirements below, shall be limited to the repair or replacement, at Offshore Systems option, of any product not meeting the above limited warranty and which is returned to Offshore Systems; or if Offshore Systems is unable to deliver a replacement that is free from defects in materials or workmanship, Purchaser's payment for such product will be refunded. Offshore Systems assumes no liability whatsoever for expenses of removing any defective product or part, or for installing the repaired product or part or a replacement therefore or for any loss or damage to equipment in connection with which Offshore Systems products or parts shall be used. The foregoing warranties shall not apply with respect to products subjected to negligence, misuse, misapplication, accident, damages by circumstances beyond Offshore Systems control, to improper installation, operation, maintenance, or storage, or to other than normal use or service.

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Statements made by any person, including representatives of Offshore Systems, which are inconsistent or in conflict with the terms of this Limited Warranty, shall not be binding upon Offshore Systems unless reduced to writing and approved by an officer of Offshore Systems.

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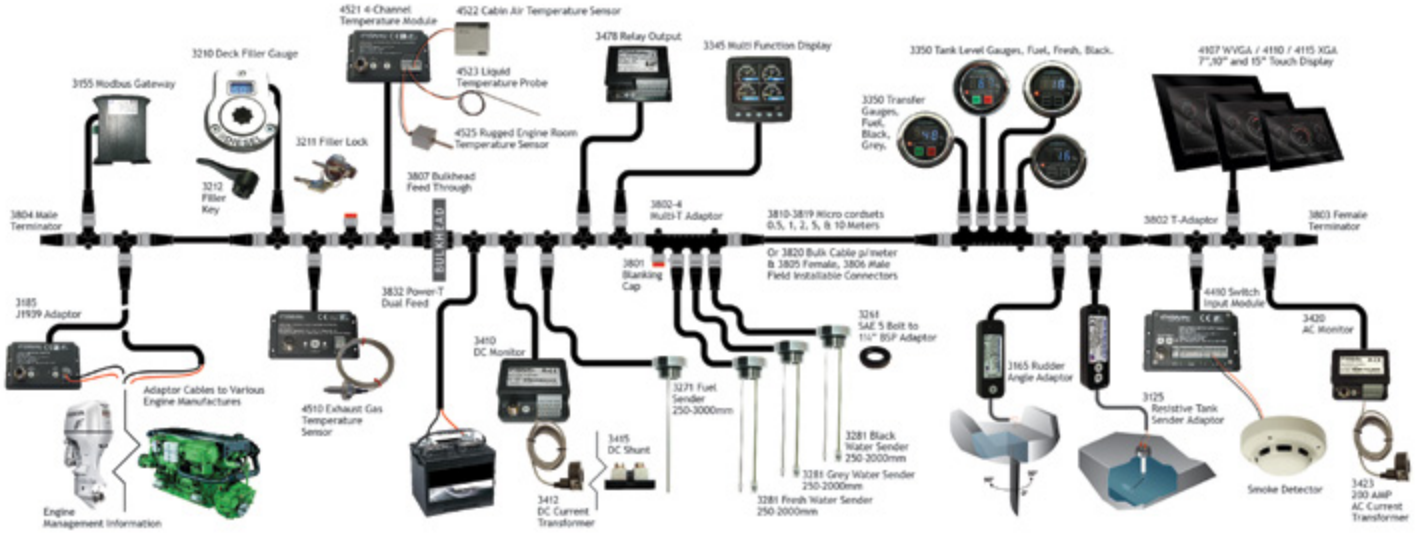
WARRANTY RETURN PROCEDURE

To apply for warranty claims, contact Offshore Systems or one of its dealers to describe the problem and determine the appropriate course of action. If a return is necessary, place the product in its original packaging together with proof of purchase and send to an Authorized Offshore Systems Service Location. You are responsible for all shipping and insurance charges. Offshore Systems will return the replaced or repaired product with all shipping and handling prepaid except for requests requiring expedited shipping (i.e. overnight shipments). Failure to follow this warranty return procedure could result in the product's warranty becoming null and void.

Offshore Systems reserves the right to modify or replace, at its sole discretion, without prior notification, the warranty listed above.

OFFSHORE SYSTEMS PRODUCT MAP

NMEA2000® VESSEL MONITORING AND CONTROL SYSTEMS


4521 4-Channel Temperature Module
4522 Cabin Air Temperature Sensor
3478 Relay Output
3345 Multi Function Display
3350 Tank Level Gauges, Fuel, Fresh, Black.
4107 WVGA / 4110 / 4115 XGA 7",10" and 15" Touch Display
3210 Deck Filler Gauge
3155 Modbus Gateway
4523 Liquid Temperature Probe
4525 Rugged Engine Room Temperature Sensor
3350 Transfer Gauges, Fuel, Black, Grey.
3211 Filler Lock
3212 Filler Key
3807 Bulkhead Feed Through
3804 Male Terminator
3802-4 Multi-T Adaptor
3810-3819 Micro cordsets 0.5, 1, 2, 5, & 10 Meters
Or 3820 Bulk Cable p/meter & 3805 Female, 3806 Male Field Installable Connectors
3802 T-Adaptor
3803 Female Terminator
3801 Blanking Cap
3832 Power-T Dual Feed
3185 J1939 Adaptor
Adaptor Cables to Various Engine Manufactures
Engine Management Information
4510 Exhaust Gas Temperature Sensor
3410 DC Monitor
3495 DC Shunt
3412 DC Current Transformer
3271 Fuel Sender 250-3000mm
3241 SAE 5 Bolt to 3/4" BSP Adaptor
3281 Black Water Sender 250-2000mm
3281 Grey Water Sender 250-2000mm
3281 Fresh Water Sender 250-2000mm
3165 Rudder Angle Adaptor
3125 Resistive Tank Sender Adaptor
4410 Switch Input Module
3420 AC Monitor
Smoke Detector
3423 200 AMP AC Current Transformer

Up to 16 each type of Sender can be installed on a single network